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PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

René DEMELLAYER

Serial No. 10/017,291

GROUP Not Assigned

Filed December 18, 2001

Examiner Unknown

DEVICE FOR THE PURIFICATION OF MACHINING  
LIQUIDS FOR ELECTROEROSION MACHINES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents

Washington, D.C. 20231

RECEIVED

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Sir:

In compliance with Rules 1.97 and 1.98, and in fulfillment of the duty of disclosure under Rule 1.56, the accompanying documents, copies of which are attached to this statement, are made of record on the enclosed sheet.

A concise explanation of the relevance of these items is that these references were cited by the European Patent Office in the corresponding European application Serial No. EP 00 12 8317. A copy of the European Official Action in which they were cited is attached hereto.

Also enclosed is a translation of pertinent portions of CH 670 785.

Respectfully submitted,

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Translation of Abstract of the Disclosure

The machining liquid for electro-erosion is constituted by stable and homogeneous dispersion of conductive or semi-conductive platelets in a dielectric liquid. These platelets are of metal or graphite. Their mean diameter varies preferable between 10 nanometers and 50 microns. A dispersion can contain a surface-active agent or an electrolytic agent.

Translation of page 5, right column, lines 59-66.

The dielectric liquid comes from a reservoir 18 in which it is stored after having been removed from the vessel 14 and then cleaned and regenerated by passage through a system 30 comprising decanters, filters, ion exchange resins, etc. The concentrated dispersion is removed from a reservoir 19 by any pumping means of known type, and a quantity controlled by the metering system 20 controlled by a signal emitted from the control circuit 23.